

Further, according to EPA, "[t]he most important spatial scale to effectively characterize the emissions of particulate matter from both mobile and stationary sources is the neighborhood scale for PM_{2.5}." 40 C.F.R. Pt. 58, App. D § 4.7.1(c). Neighborhood scale measurements should be representative of "conditions in areas where people commonly live and work." *Id.* § 4.7.1(c)(3). Because the Bozeman water treatment plant does not resemble areas where most people live and work, it does not provide accurate neighborhood scale data. This site should be relocated to an area that will provide meaningful air quality information for the Bozeman area.

Without PM₁₀ monitoring, industrial emissions, road dust, and fugitive emissions from gravel pit mining – some of the most significant emissions in the valley – are being ignored. Data from the summer of 2007, when forest fire smoke was severe in the Valley, reveal the inadequacy of current monitoring. During the entire summer, the PM_{2.5} standard was exceeded only twice, and one of those two readings was just barely over the 35 microgram daily limit (35.8). This is a good indication that PM_{2.5} monitoring does not present the whole picture of air quality in the Valley and a PM₁₀ monitor is necessary as well.

Another concern is that a significant number of data points for Gallatin Valley air quality have been omitted over the last few years. Ostensibly this has been done for "quality control" reasons. What concerns us is that it appears that most of the deleted data was recorded in the months of December, January, and February, when air inversions create poor air quality conditions. In 1993, about 4% of data was deleted for this reason; after 2000, up to 35% of data from the critical winter months was deleted. During this same period (1993-2006), DEQ charts show PM₁₀ steadily declining in the Gallatin Valley. This trend is inconsistent with local observations of air quality. DEQ should investigate and then explain why there has been a significant increase in data being eliminated from consideration due to quality control reasons. Instead of assuming this means that air quality is improving, DEQ should improve the control of this data so it can be used to determine if the loss of this data creates a false representation of air quality in the valley.

Please contact us if you have any questions or need any clarification of these concerns.

Sincerely,



Anne Hedges
Montana Environmental Information Center

Signing for:
Jennifer Swearingen
Montanans Against Toxic Burning

Jenny Harbine
Earthjustice